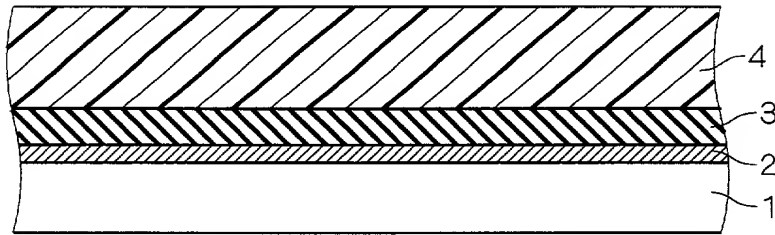
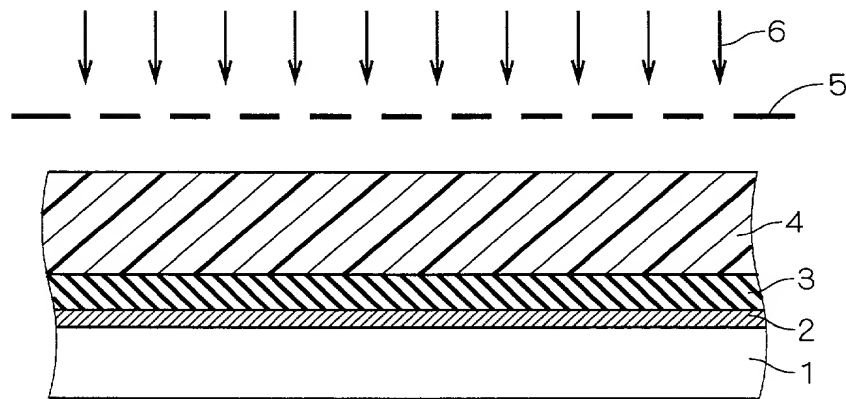


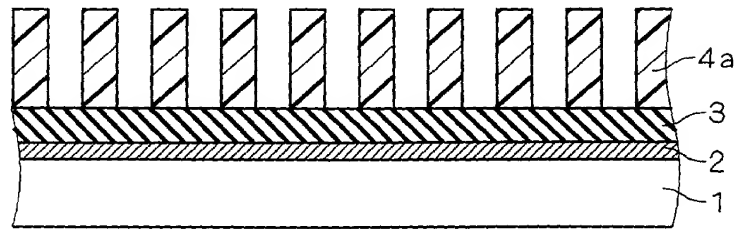
F I G . 1



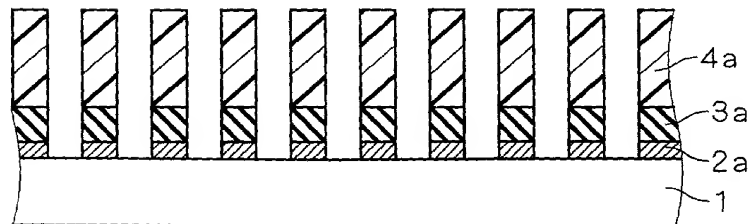
F I G . 2



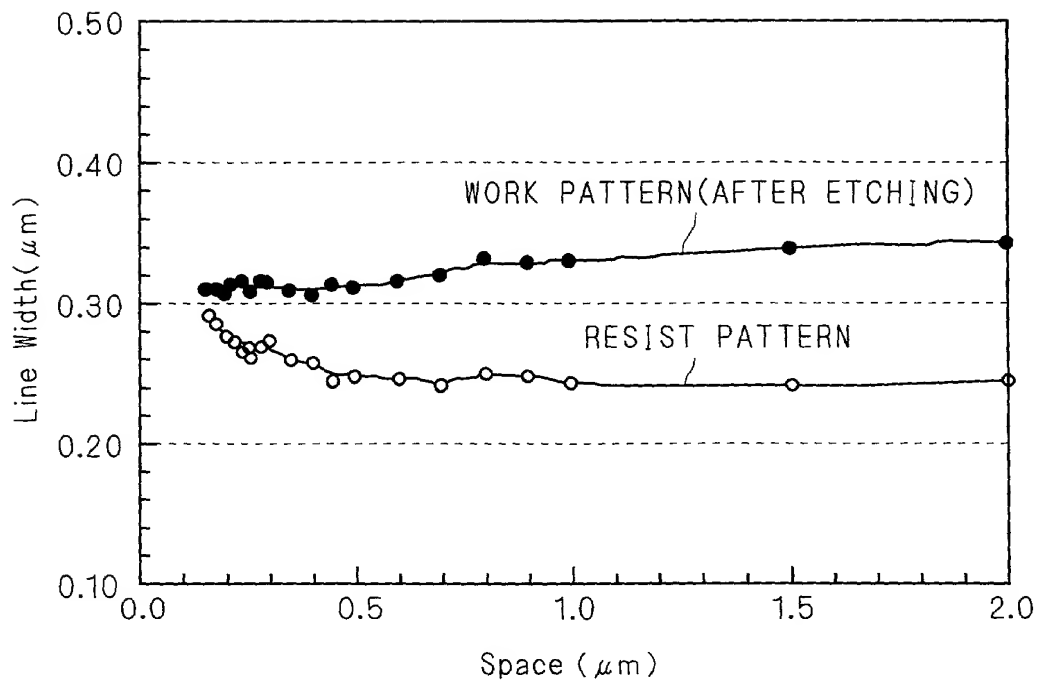
F I G . 3



F I G . 4



F I G . 5



F I G . 6

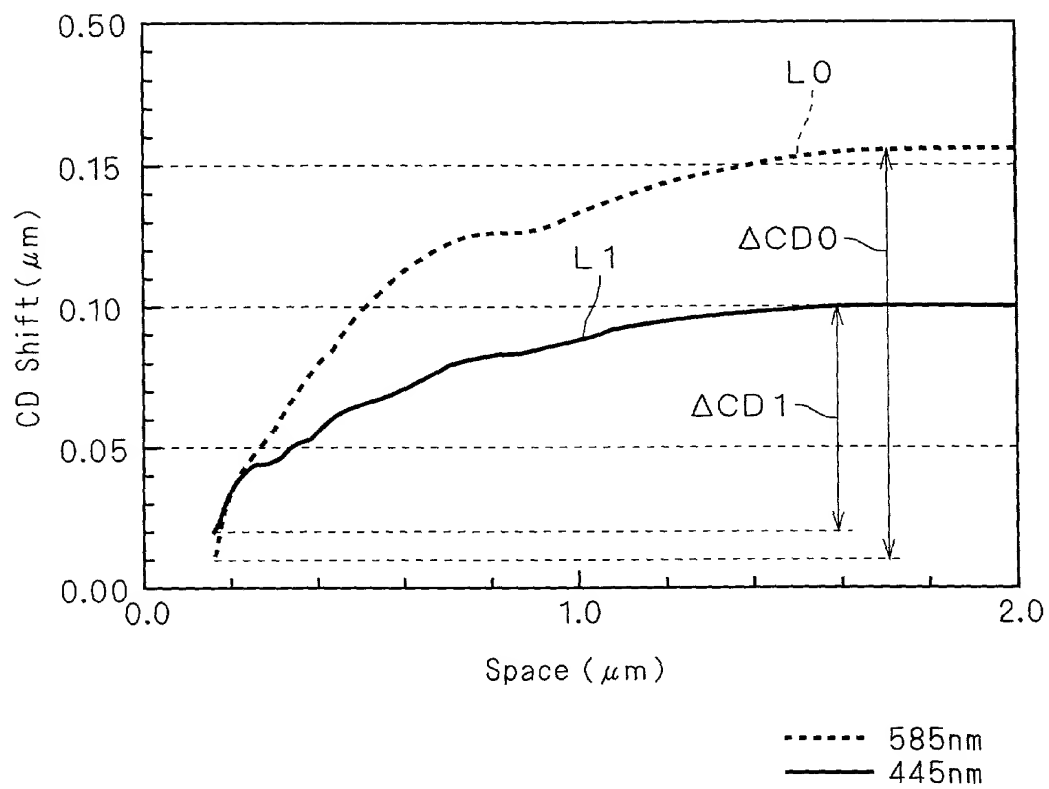


FIG. 7

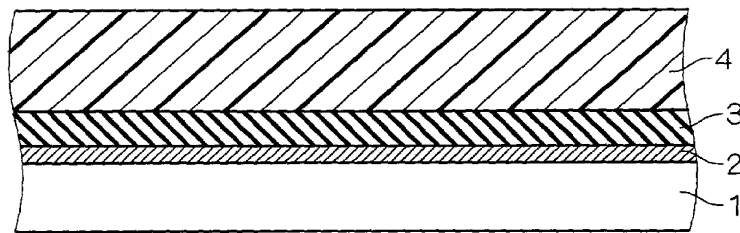
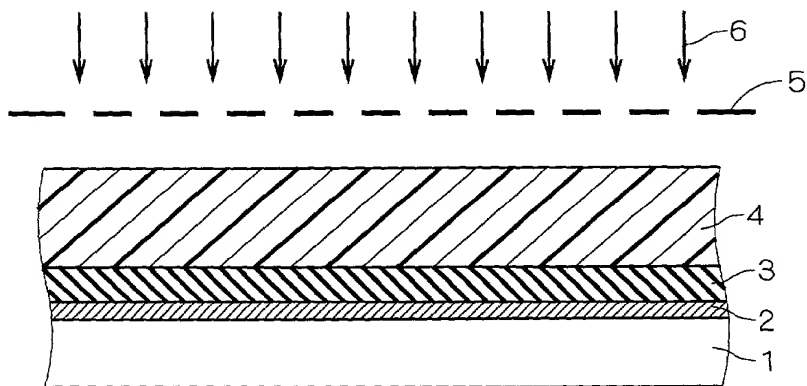
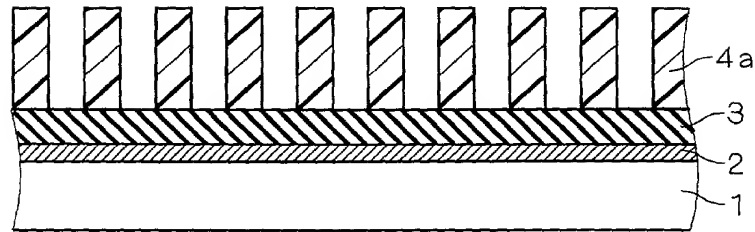


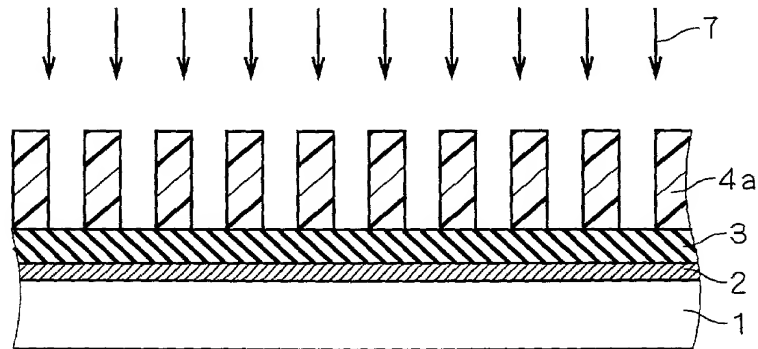
FIG. 8



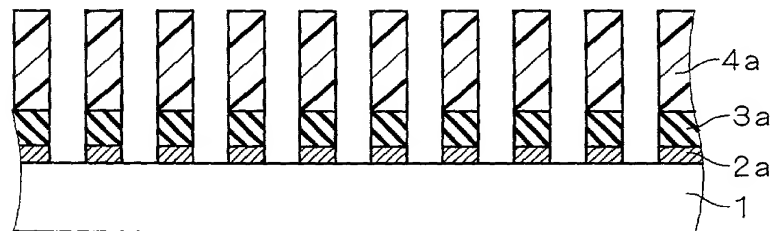
F I G . 9



F I G . 10



F I G . 11



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FIG. 9

F I G . 12

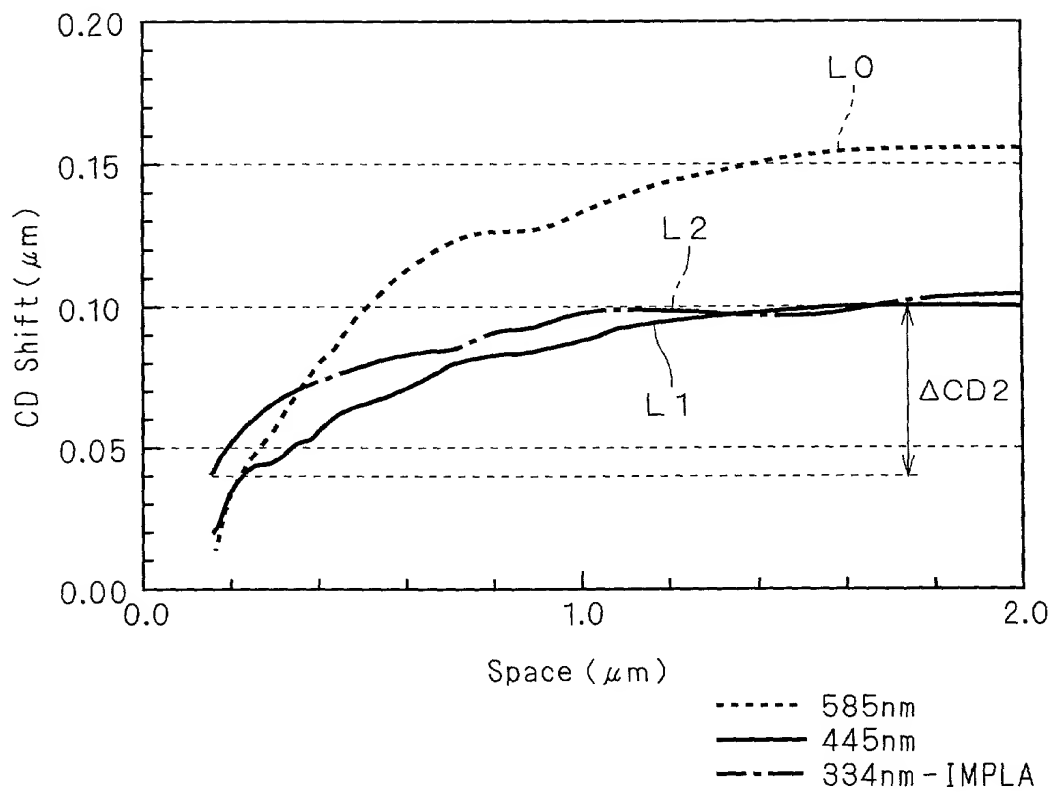
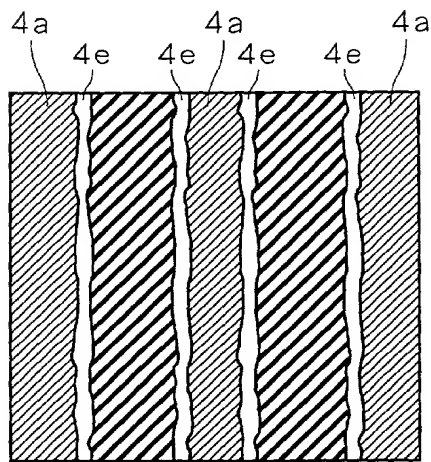
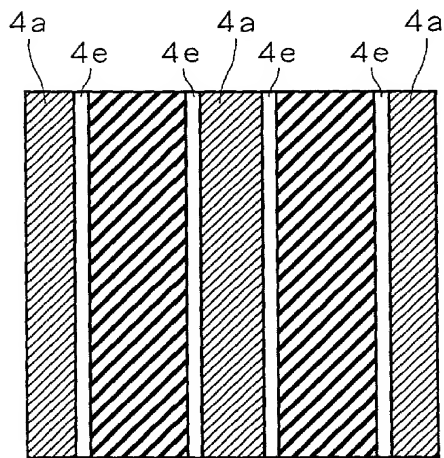


FIG. 13



RESIST PATTERN AFTER DEVELOPMENT

FIG. 14



RESIST PATTERN
AFTER Ar ION IMPLANTATION

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10/22/00 96631660

FIG. 15

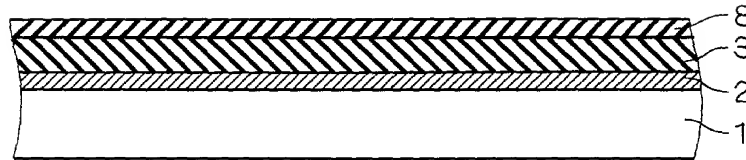


FIG. 16

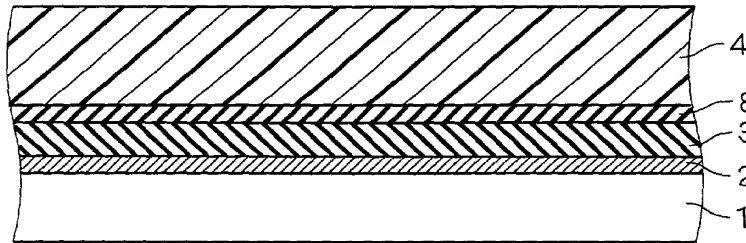
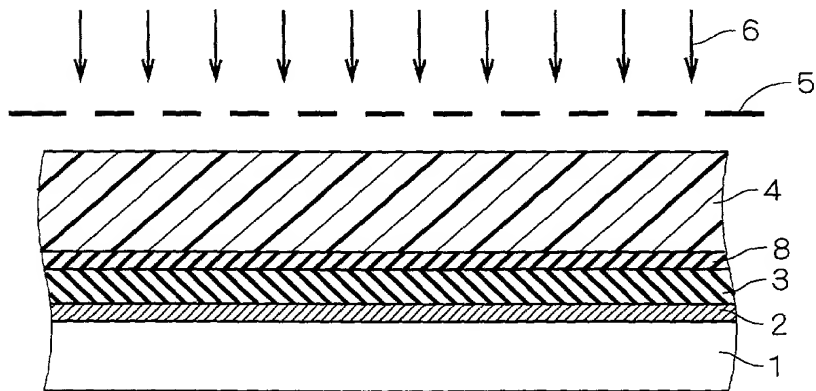
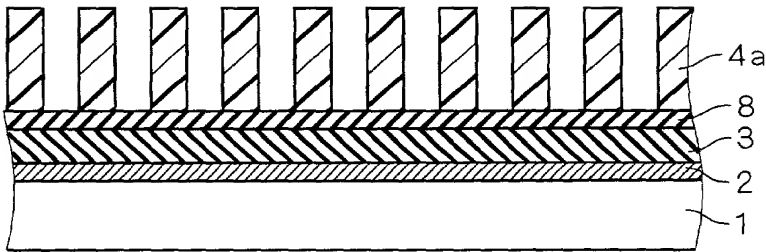


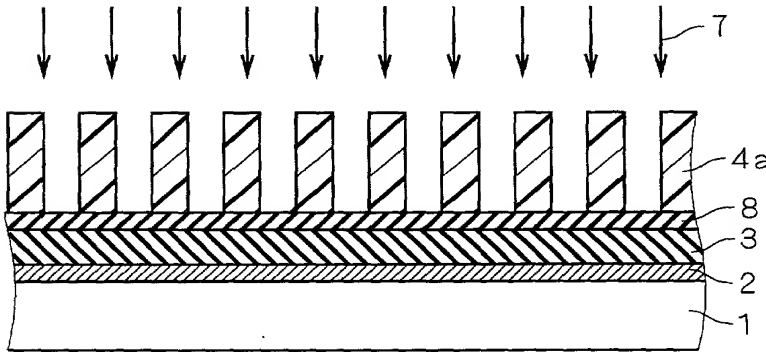
FIG. 17



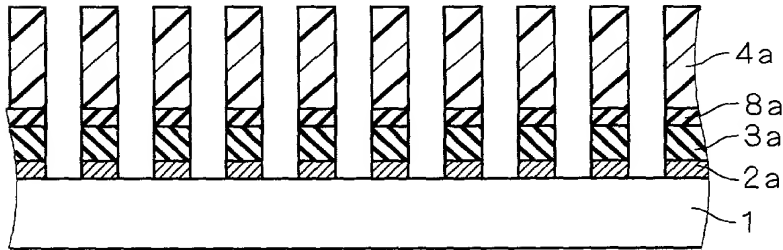
F I G . 18



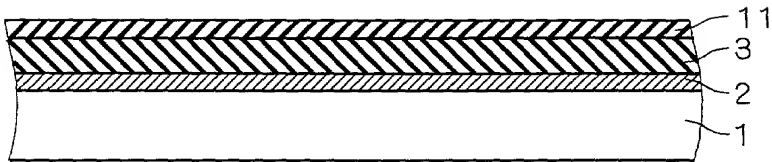
F I G . 19



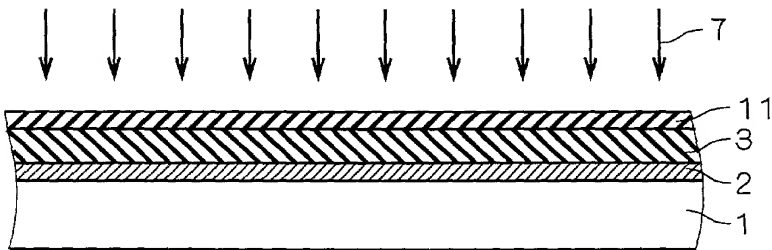
F I G . 20



F I G . 21



F I G . 22



F I G . 23

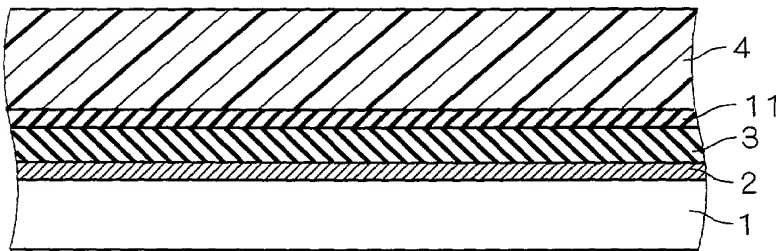
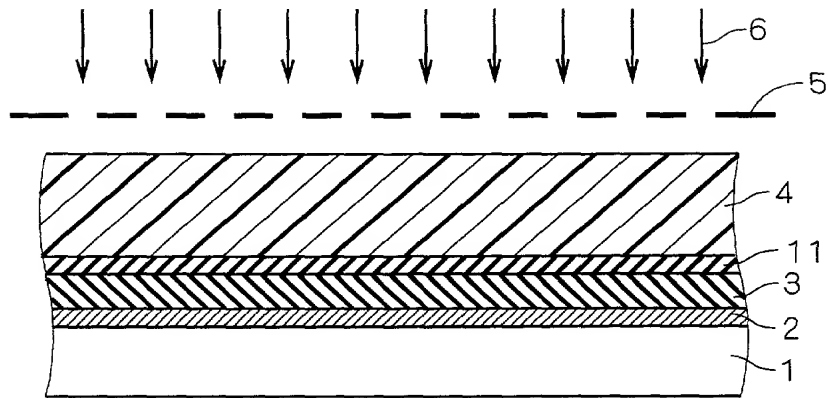
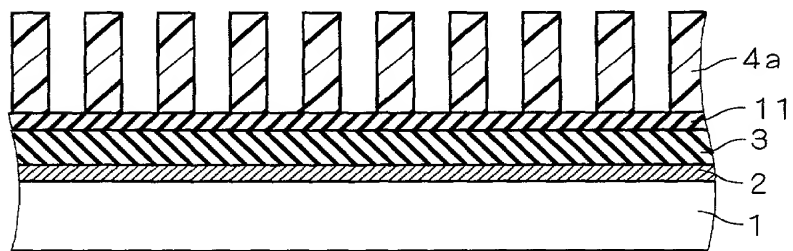


FIG. 21

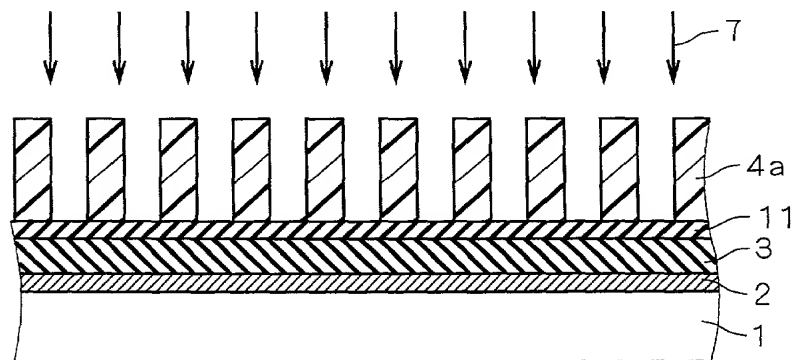
F I G . 24



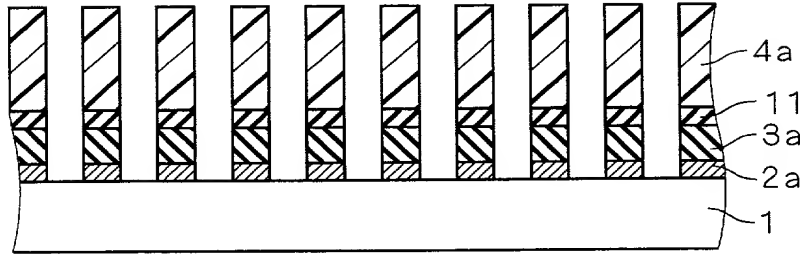
F I G . 25



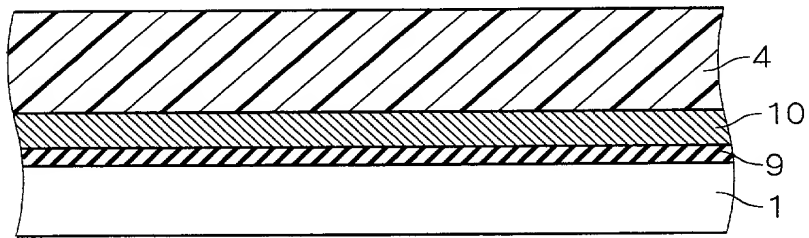
F I G . 26



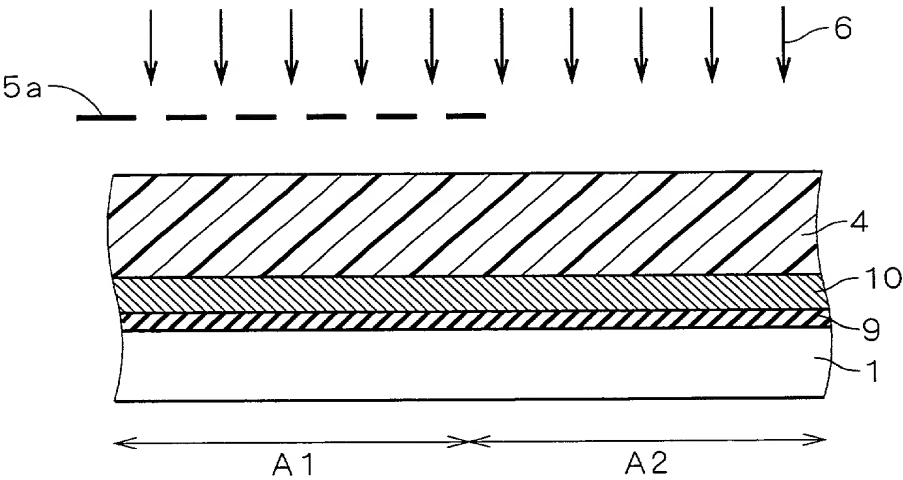
F I G . 27



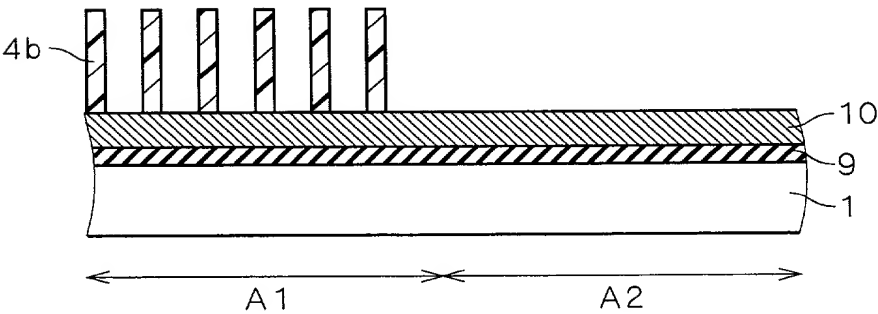
F I G . 28



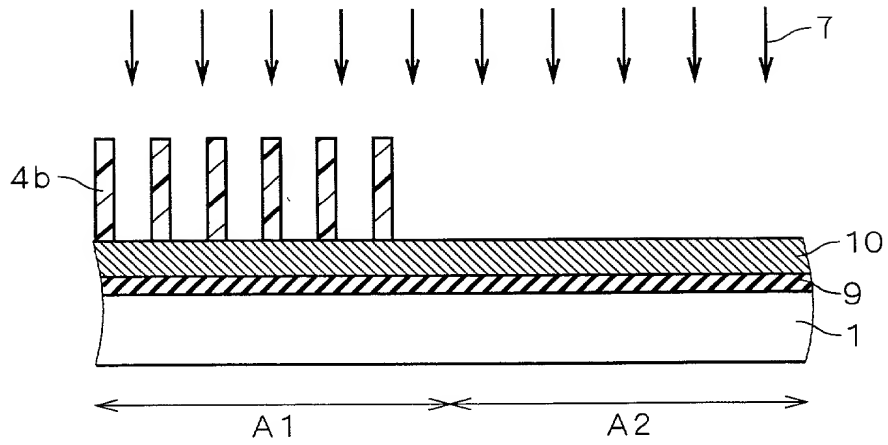
F I G . 2 9



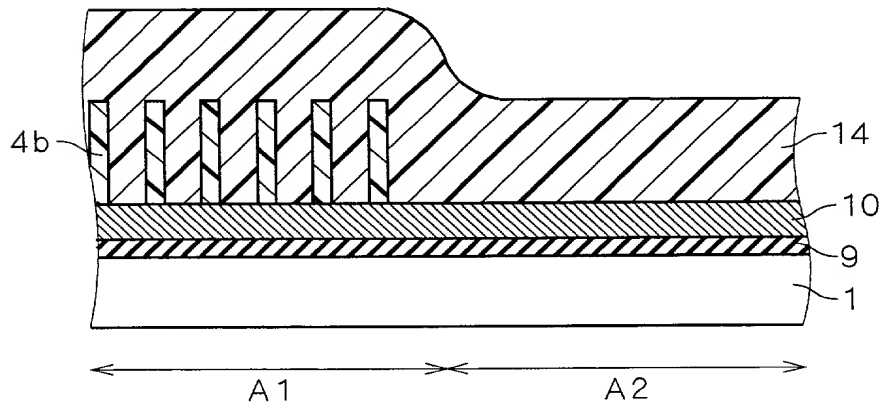
F I G . 3 0



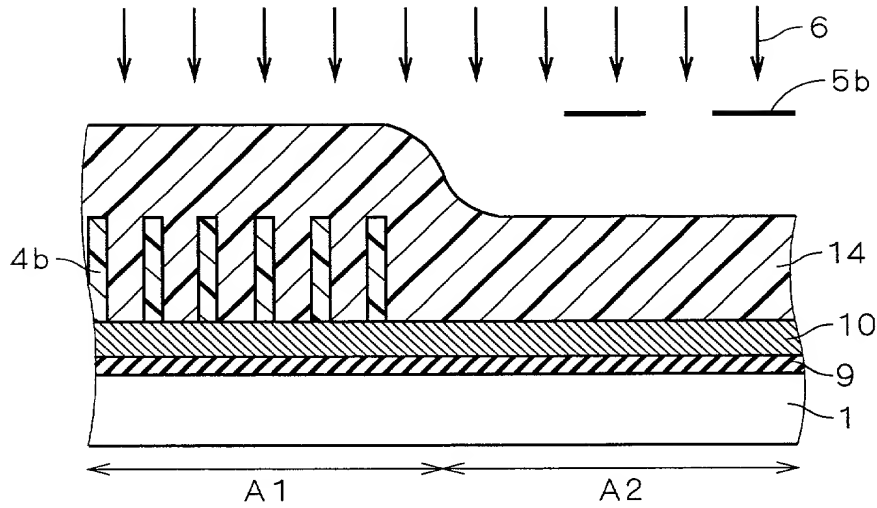
F I G . 3 1



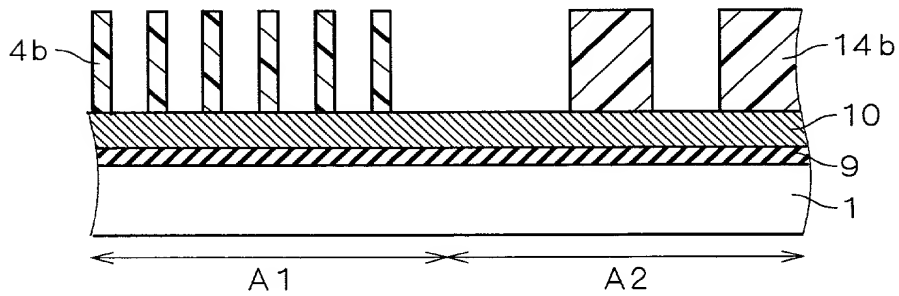
F I G . 3 2



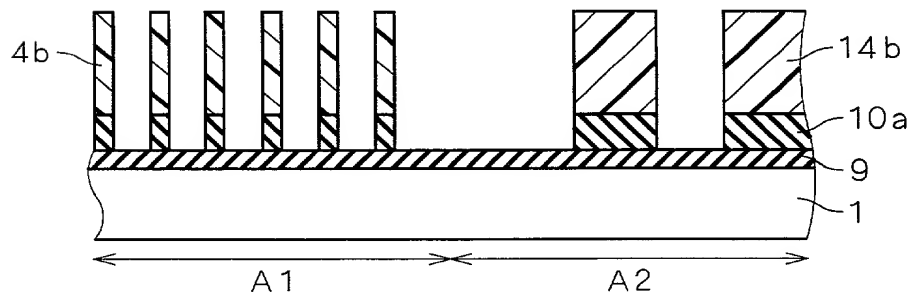
F I G . 33



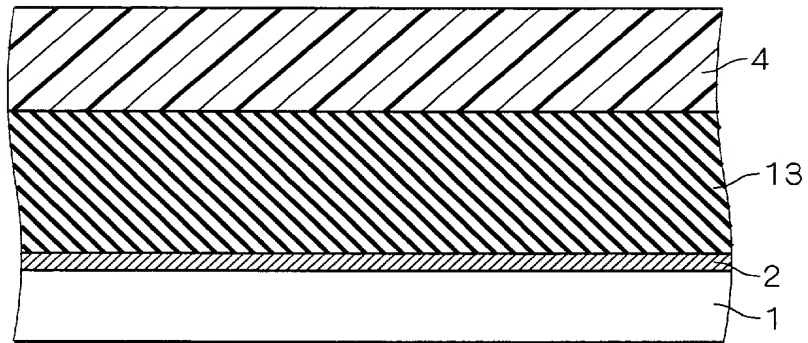
F I G . 34



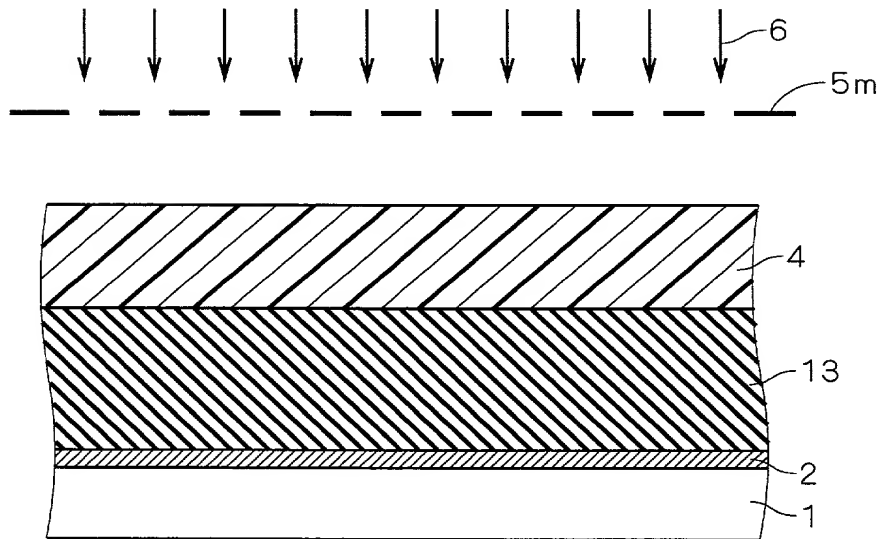
F I G . 35



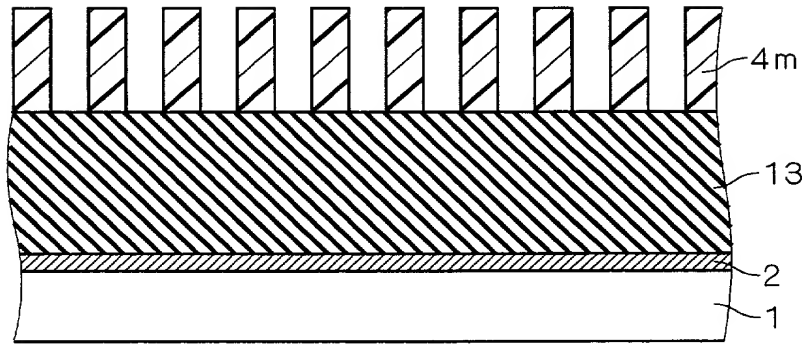
F I G . 3 6



F I G . 3 7



F I G . 3 8



F I G . 3 9

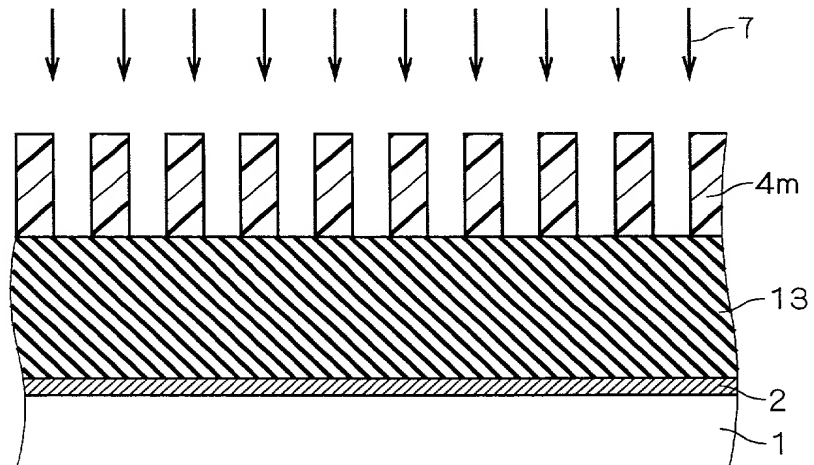


FIG. 40

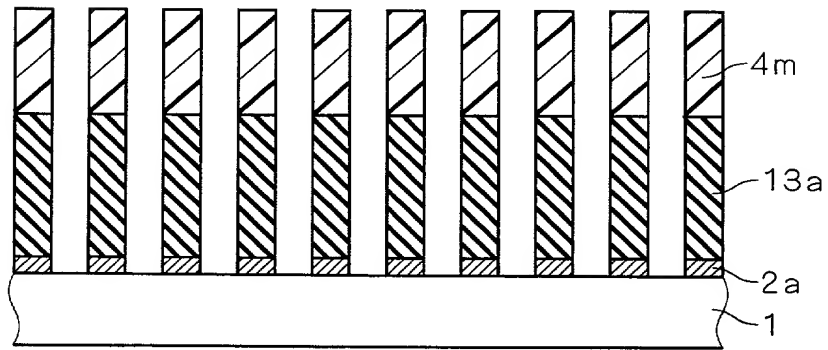
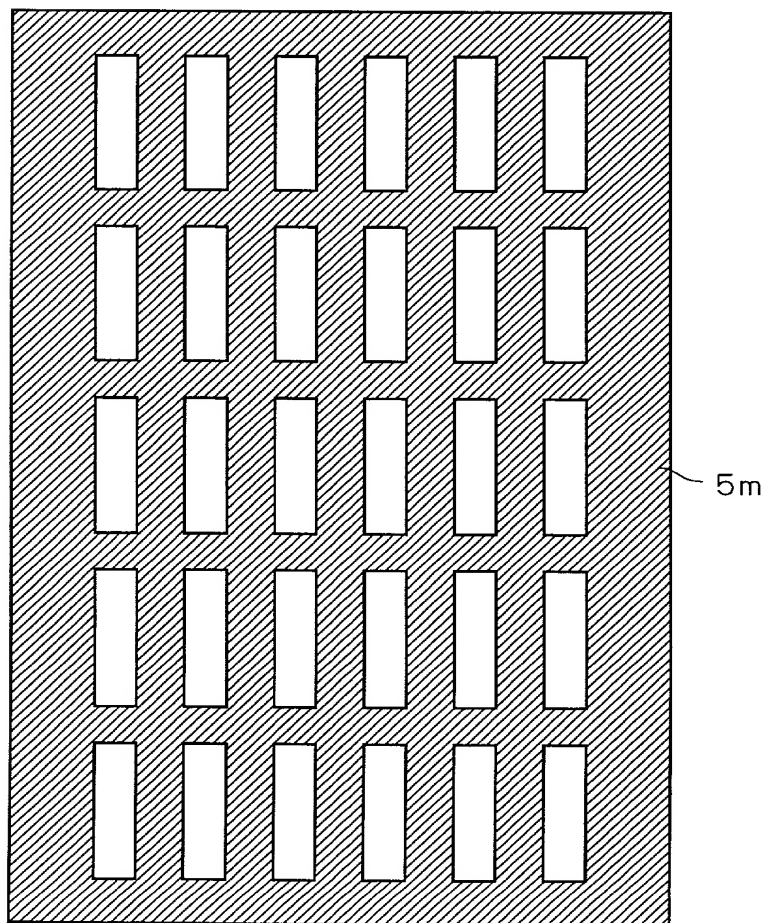
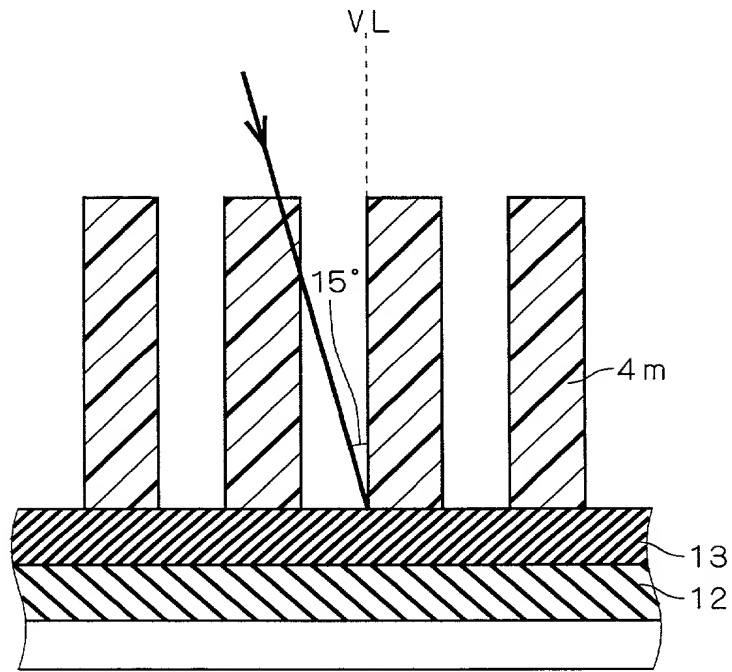


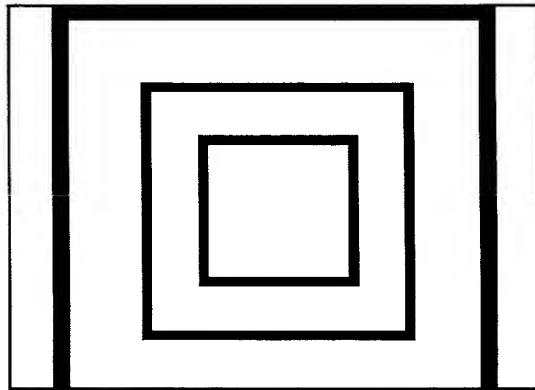
FIG. 41



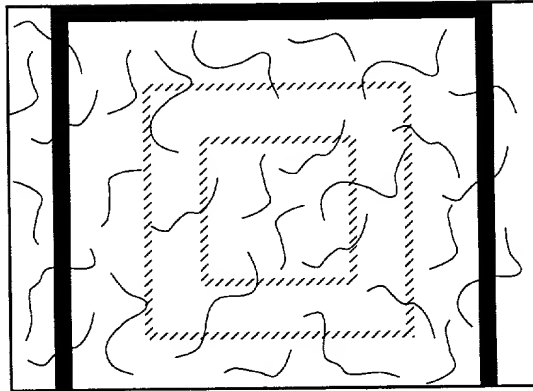
F I G . 4 2



F I G . 4 3



F I G . 4 4



F I G . 4 5

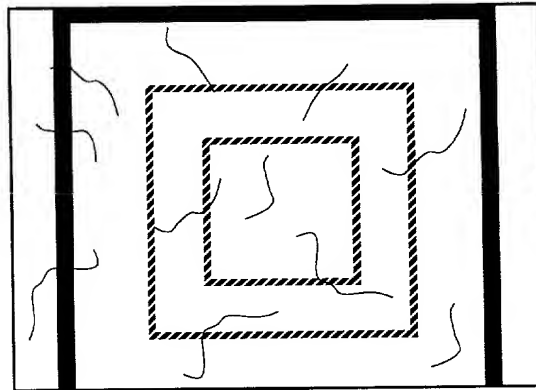
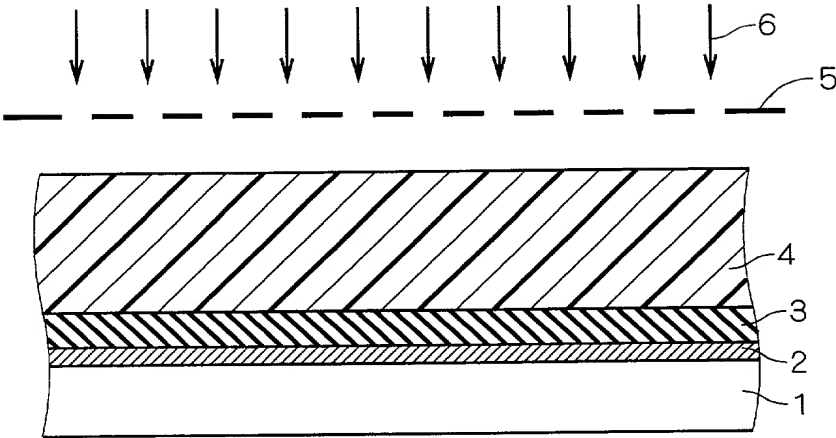


Figure 1 shows a cross-sectional view of a substrate 1. A thin layer 15 is formed on the top surface of the substrate 1. A thicker layer 16 is formed on top of layer 15. A series of downward-pointing arrows, labeled 7, are positioned above the layers, representing an incident light beam.

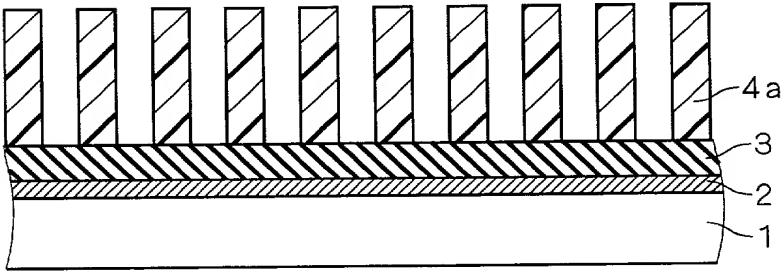
A cross-sectional view of a semiconductor device. It shows a substrate (1) with a thin layer (15) and a thicker layer (16). A patterned layer (17) is on top of 16, with a gap (19) between two blocks. A dashed line (18) indicates a depth or position within the substrate.

A cross-sectional view of a multi-layered material structure. The structure consists of four distinct layers, labeled 1 through 4 from bottom to top. Layer 1 is the bottom-most layer, shown with a white background. Layer 2 is a thin layer directly above layer 1, filled with diagonal hatching lines sloping from the bottom-left to the top-right. Layer 3 is a layer above layer 2, filled with diagonal hatching lines sloping from the top-left to the bottom-right. Layer 4 is the top-most layer, filled with diagonal hatching lines sloping from the bottom-left to the top-right. The layers are separated by thin, dark horizontal lines.

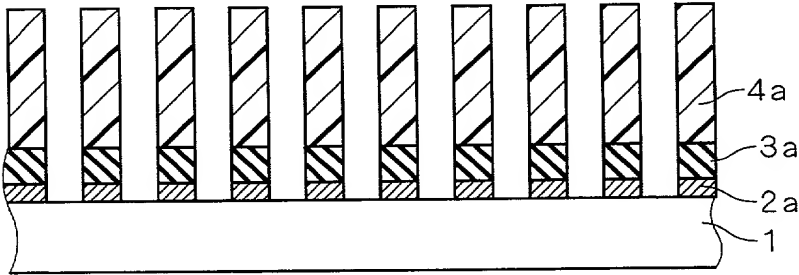
F I G . 49



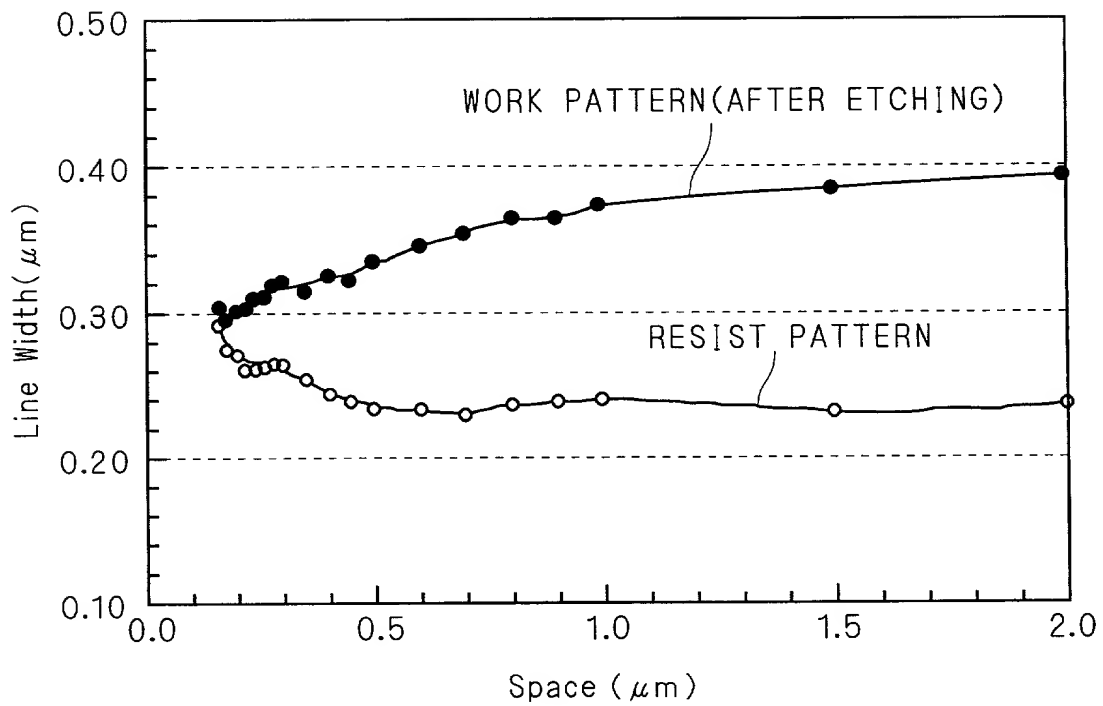
F I G . 50



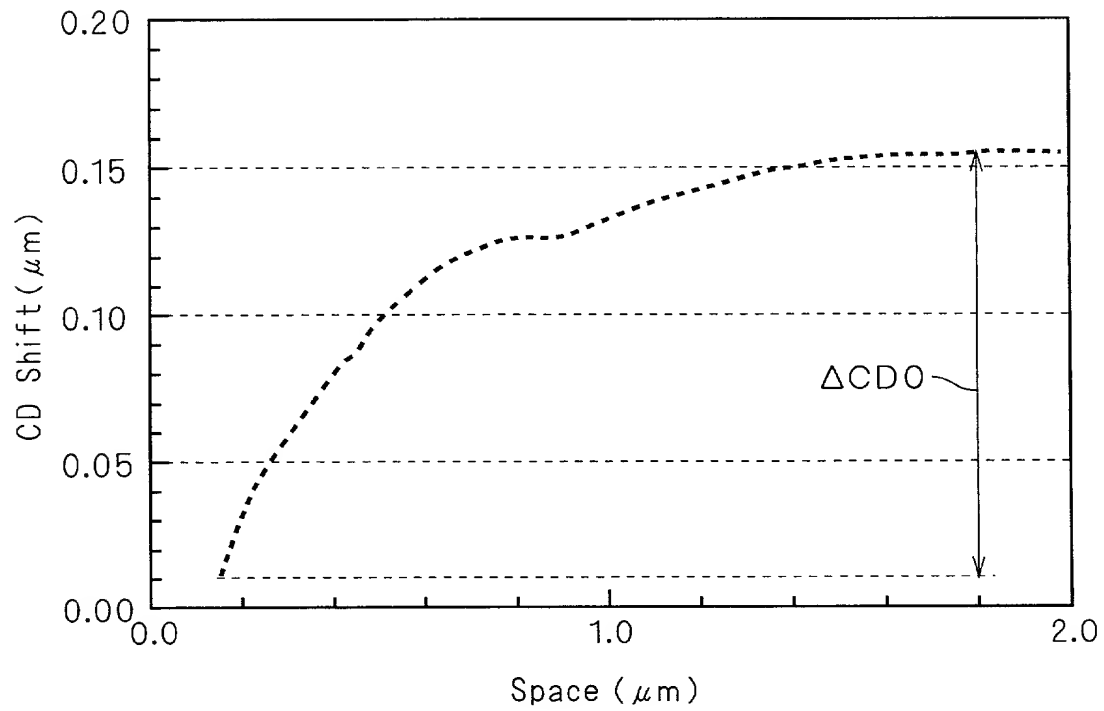
F I G . 51



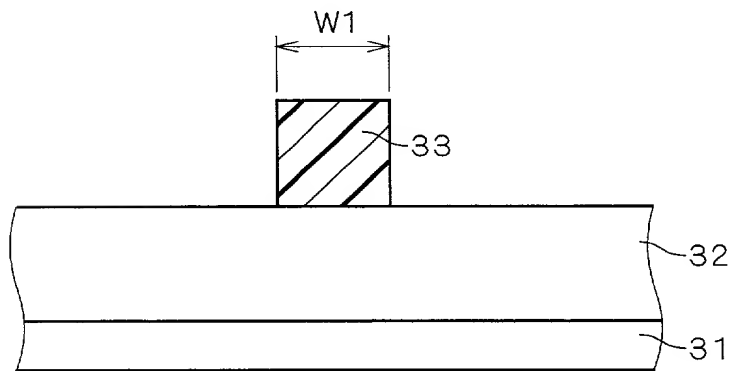
F I G . 52



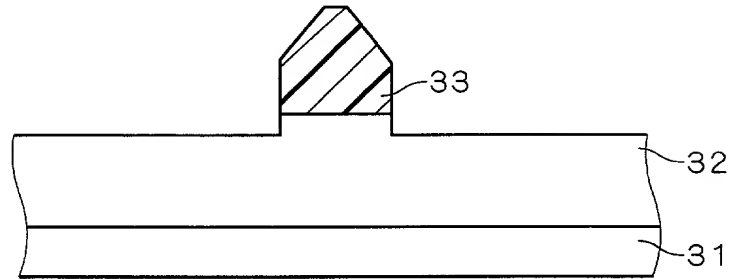
F I G . 53



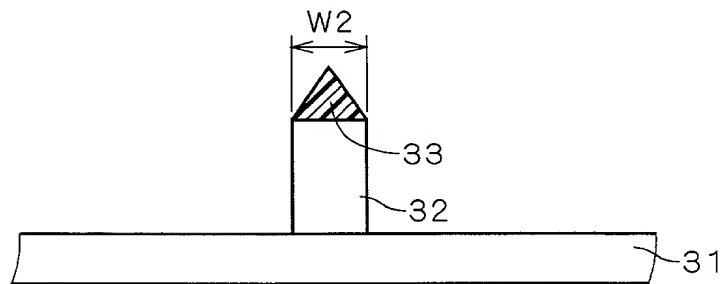
F I G . 54



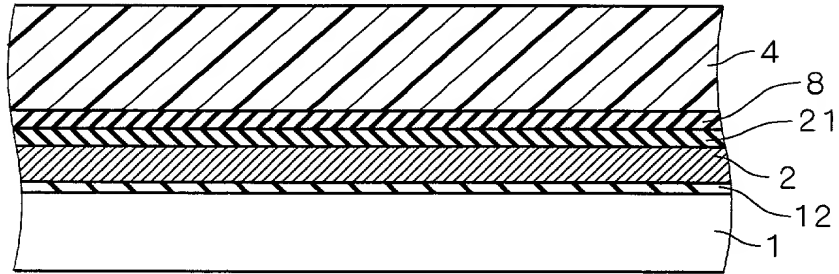
F I G . 55



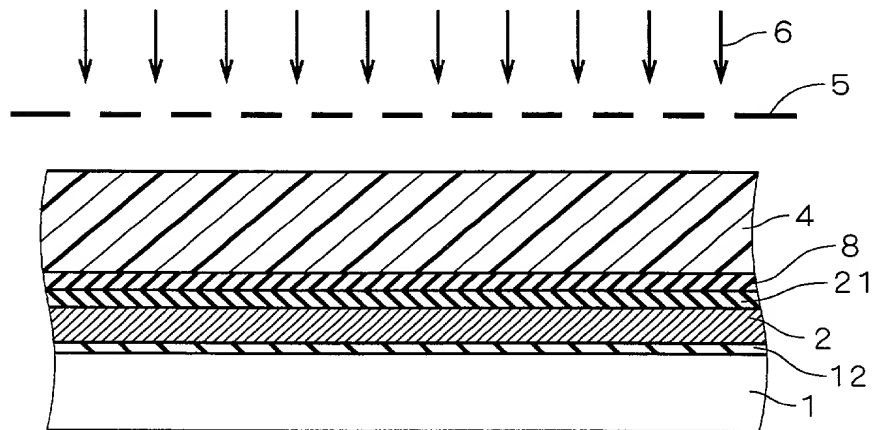
F I G . 56



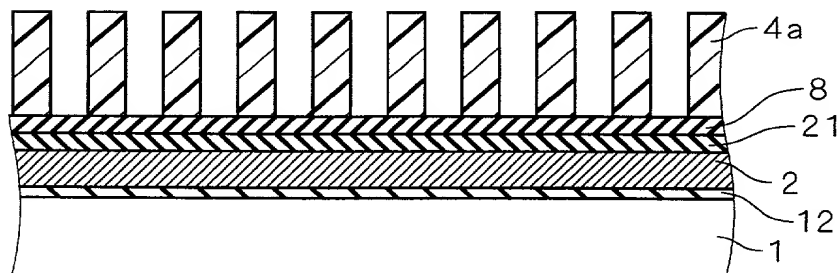
F I G . 57



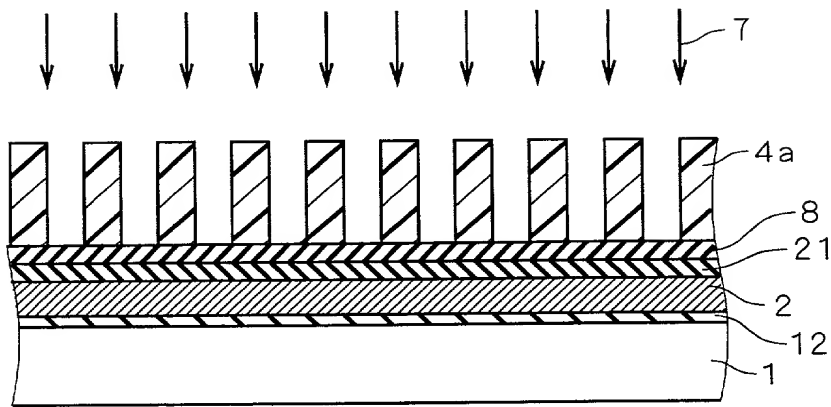
F I G . 58



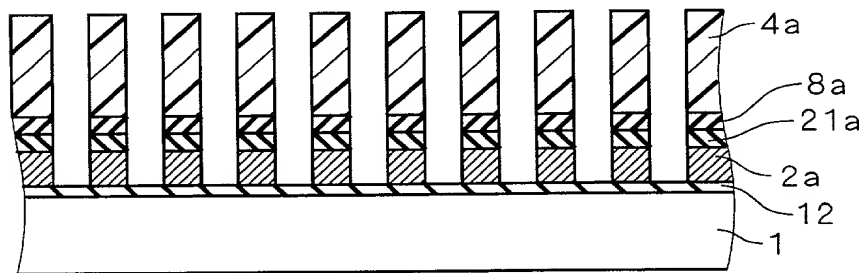
F I G . 59



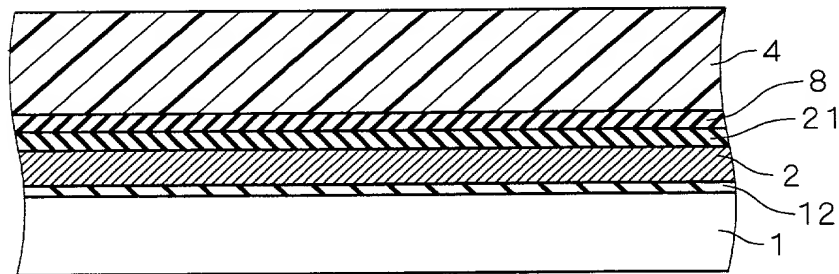
F I G . 60



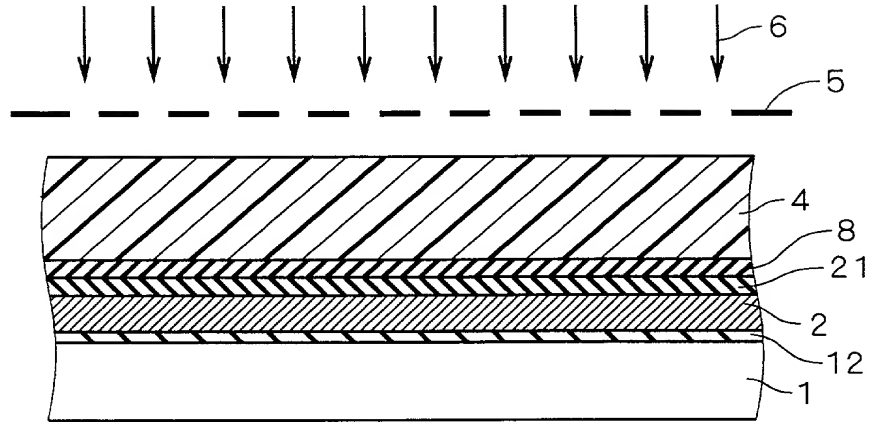
F I G . 61



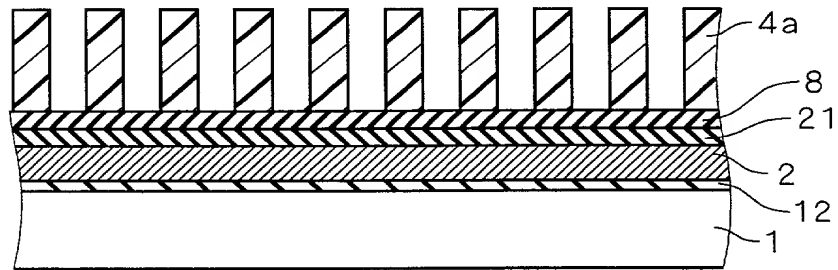
F I G . 62



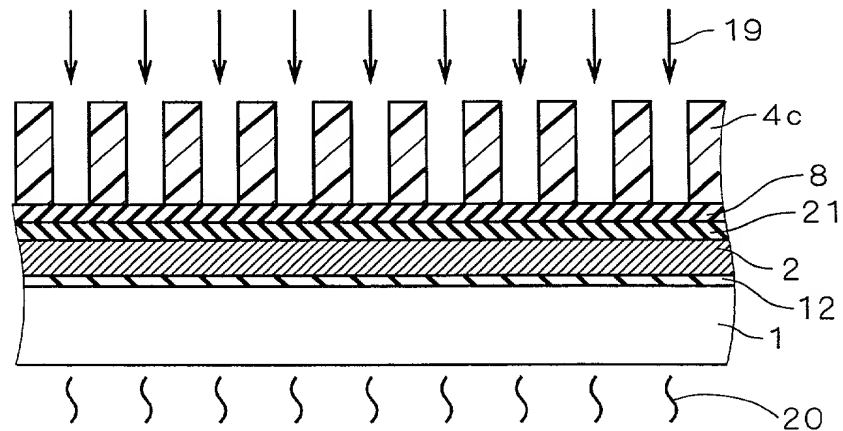
F I G . 63



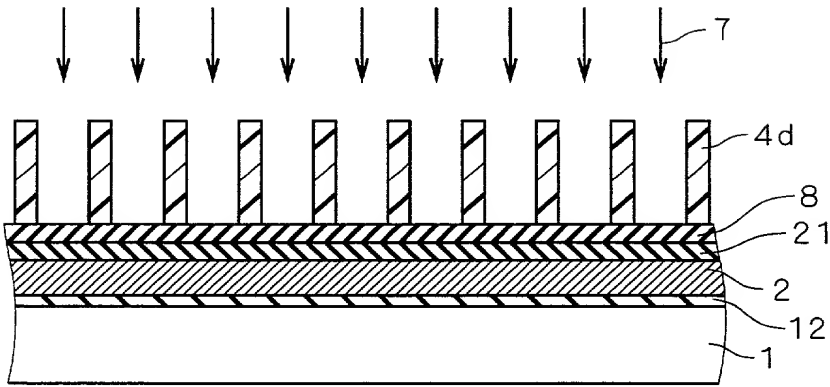
F I G . 64



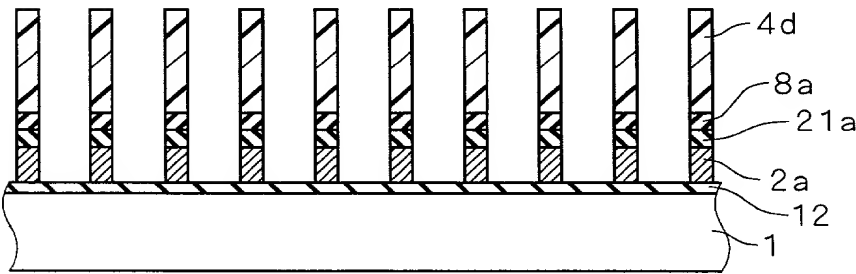
F I G . 65



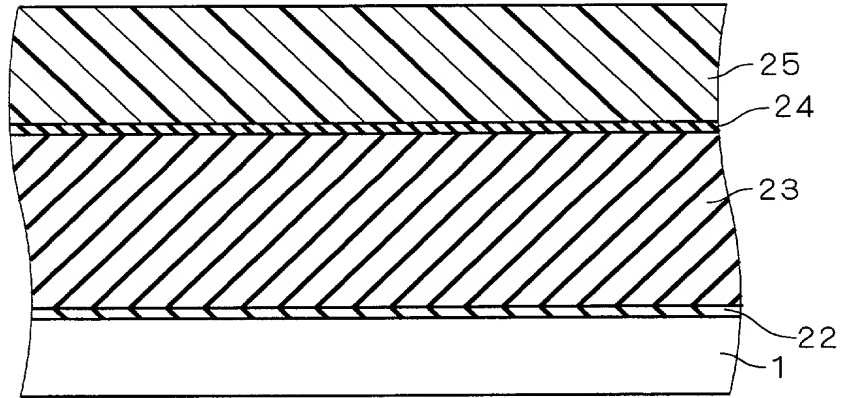
F I G . 6 6



F I G . 6 7



F I G . 68



F I G . 69

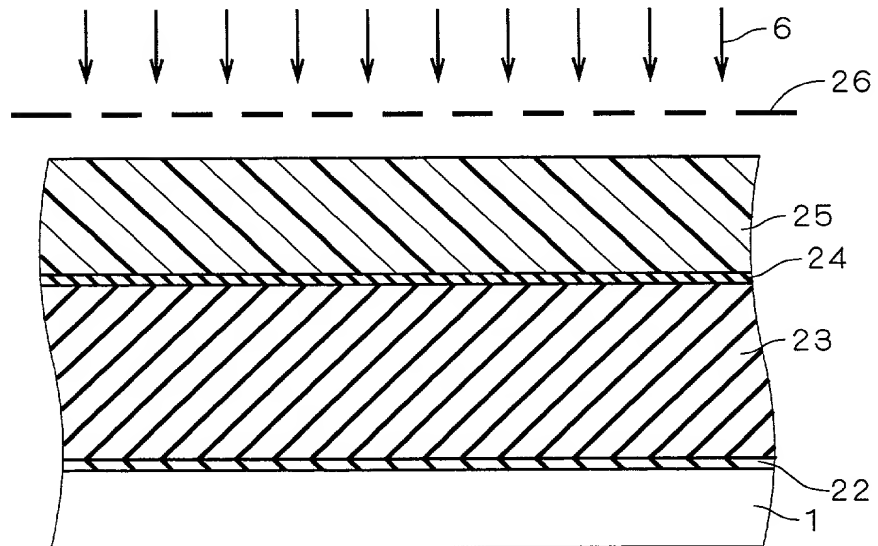


FIG. 70

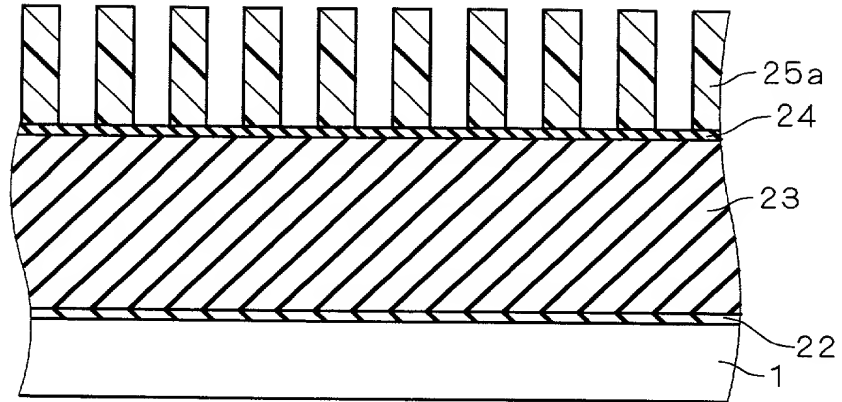
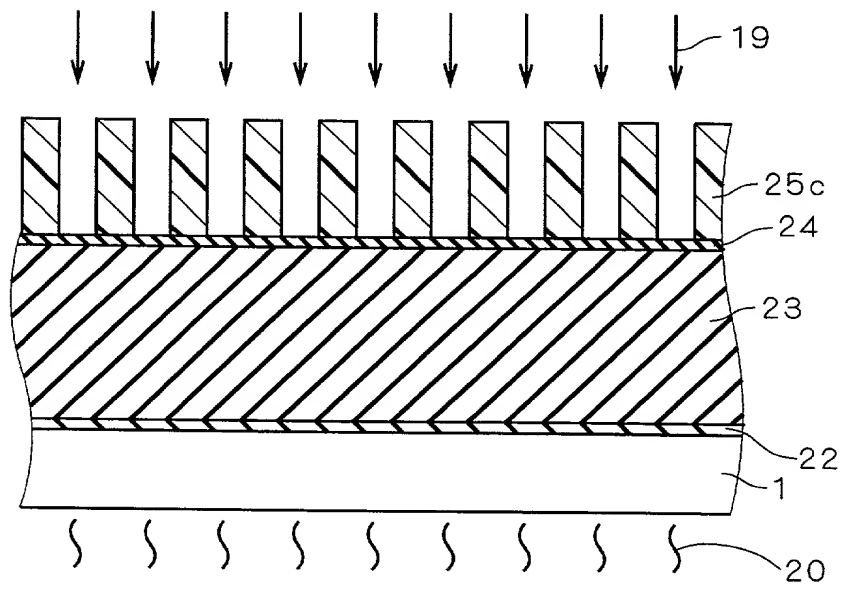
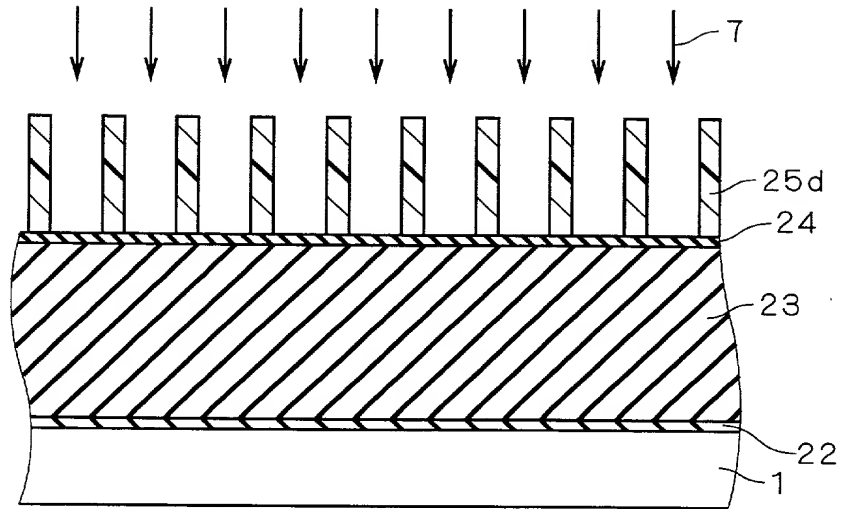


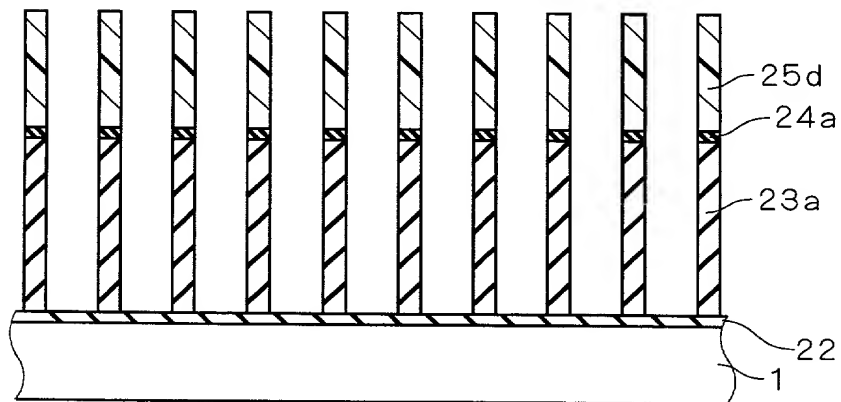
FIG. 71



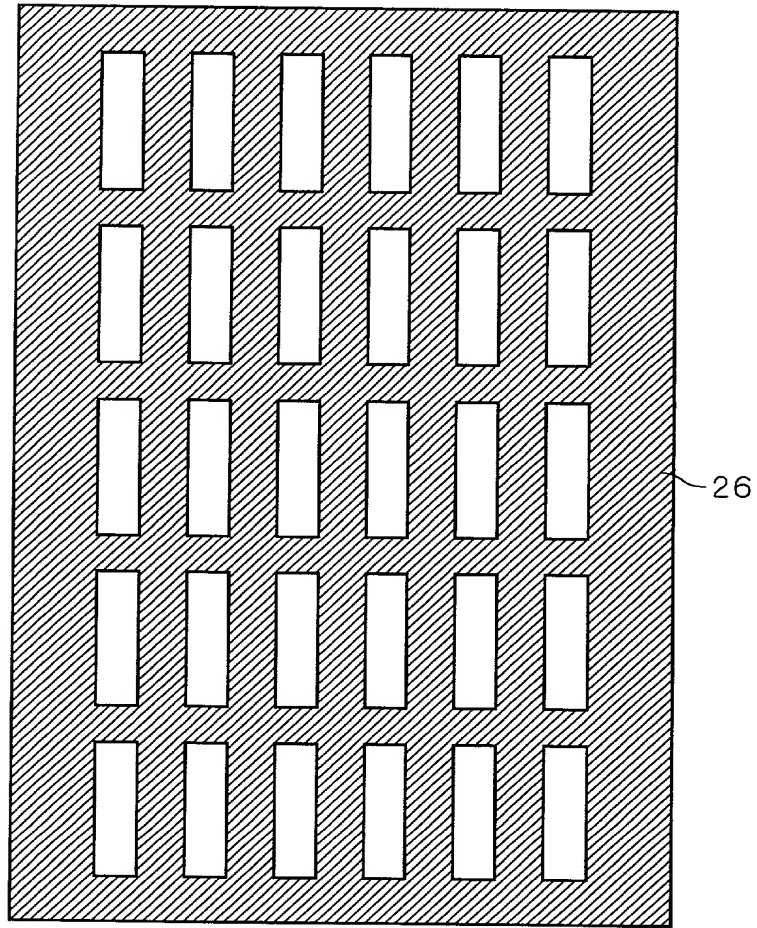
F I G . 7 2



F I G . 7 3



F I G . 7 4



F I G . 7 5

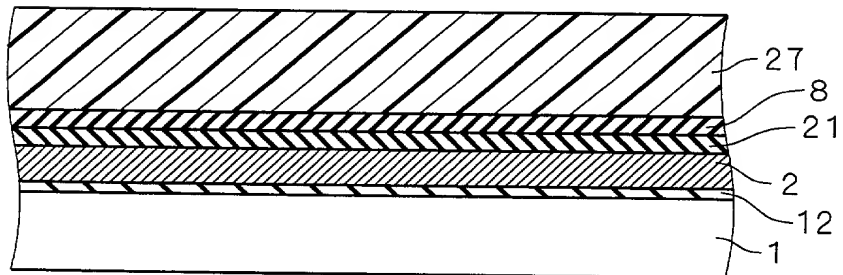


FIG. 76

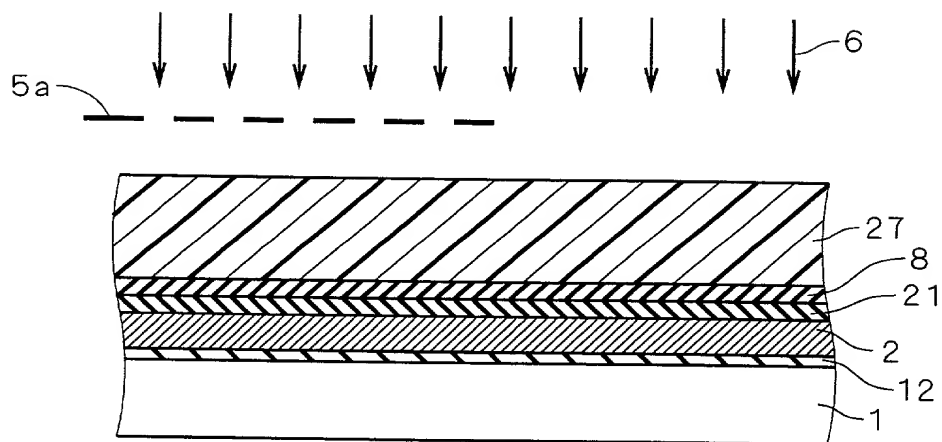
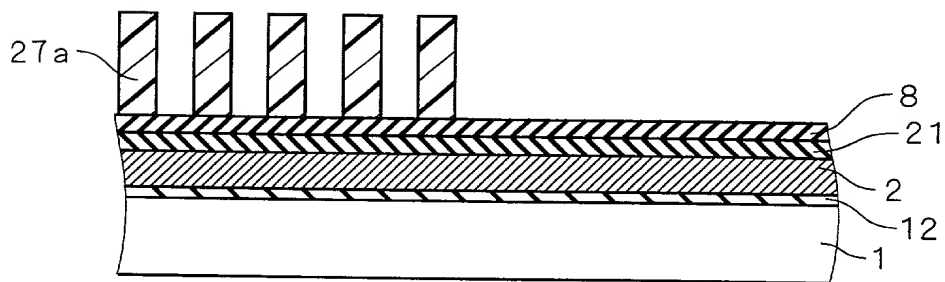
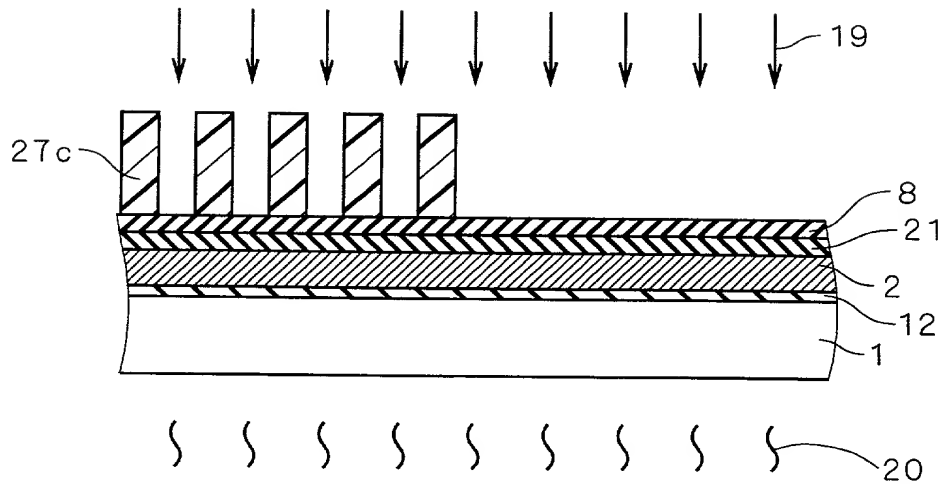


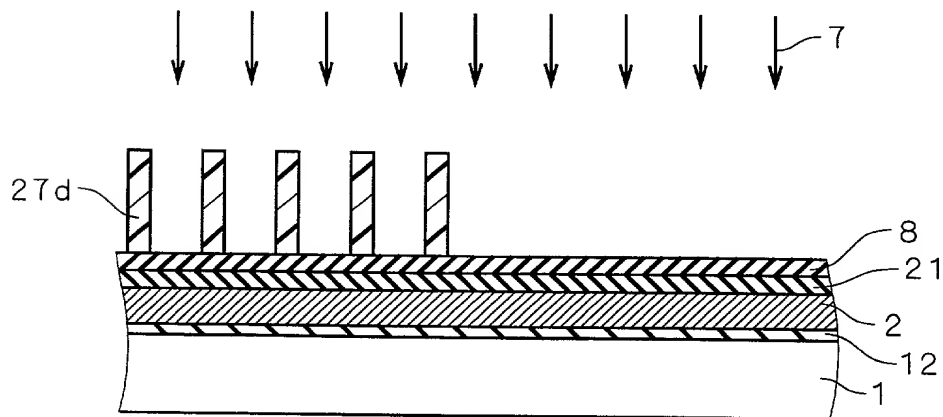
FIG. 77



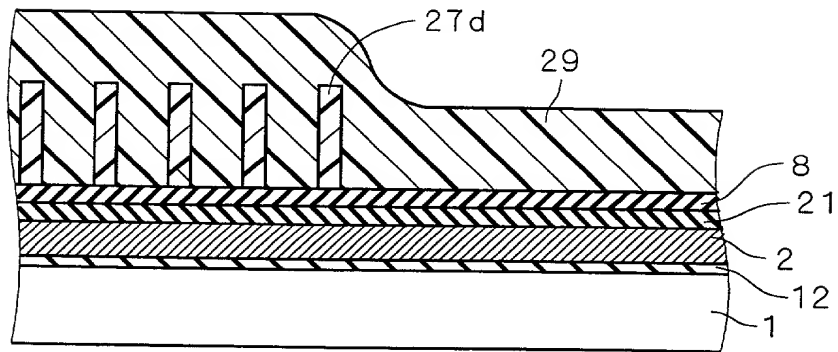
F I G . 78



F I G . 79



F I G . 8 0



F I G . 8 1

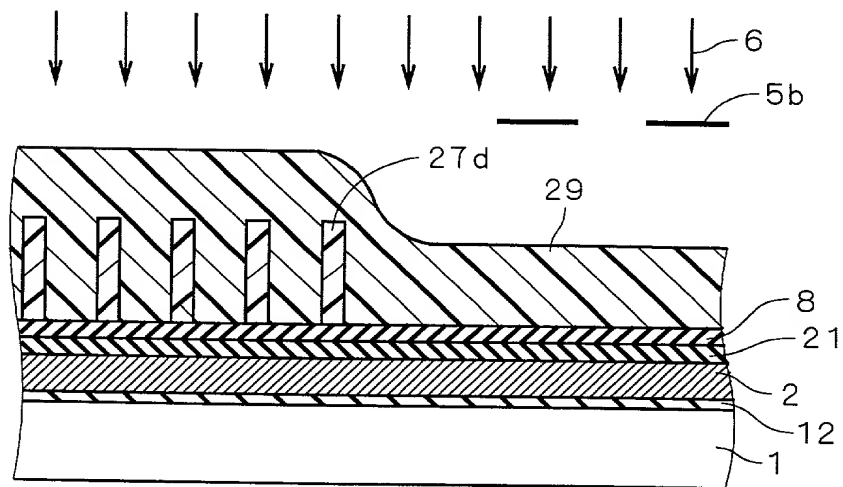


FIG. 82

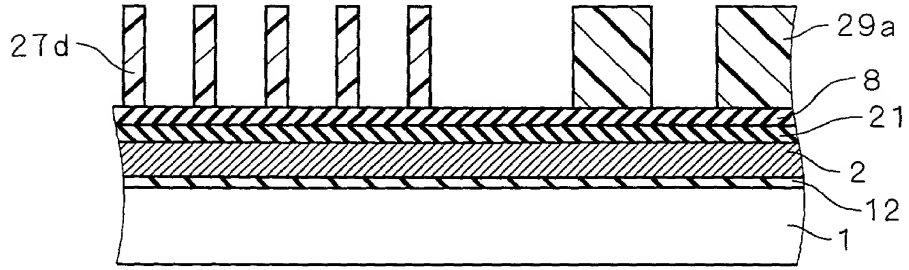


FIG. 83

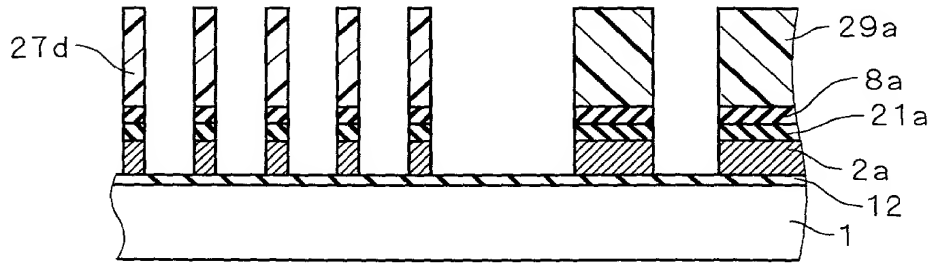
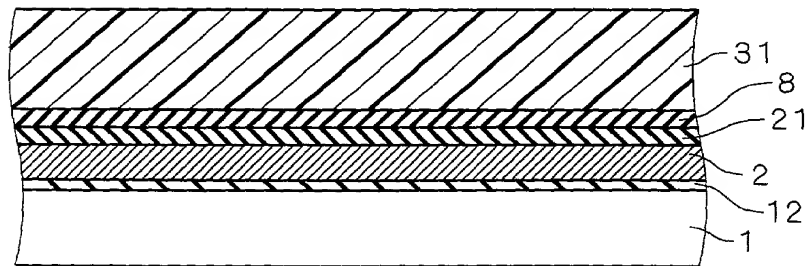
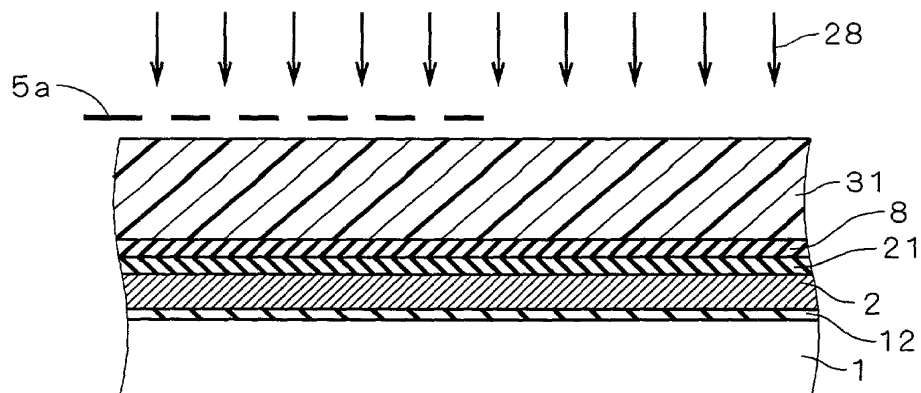


FIG. 84



F I G . 8 5



F I G . 8 6

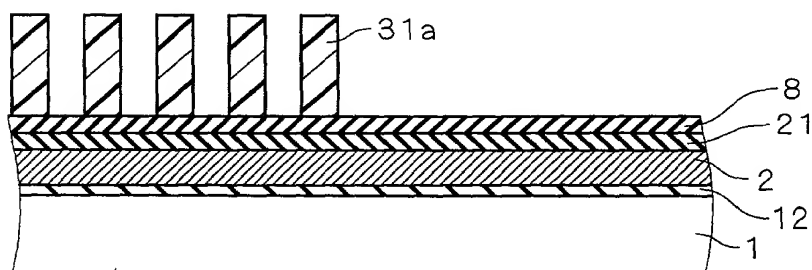


FIG. 87

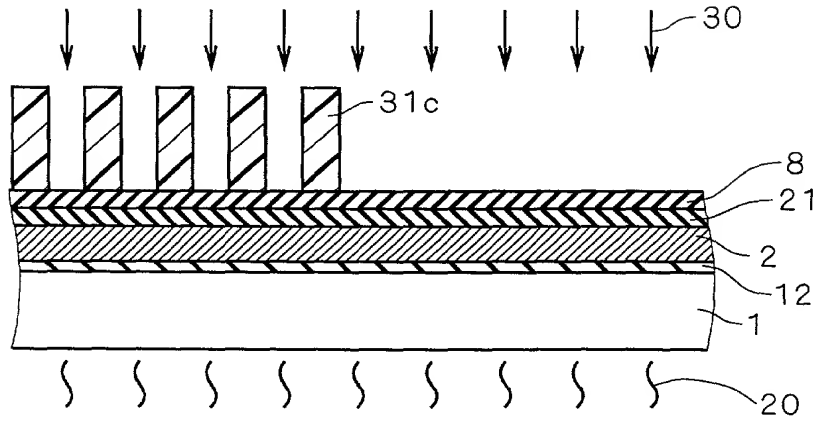


FIG. 88

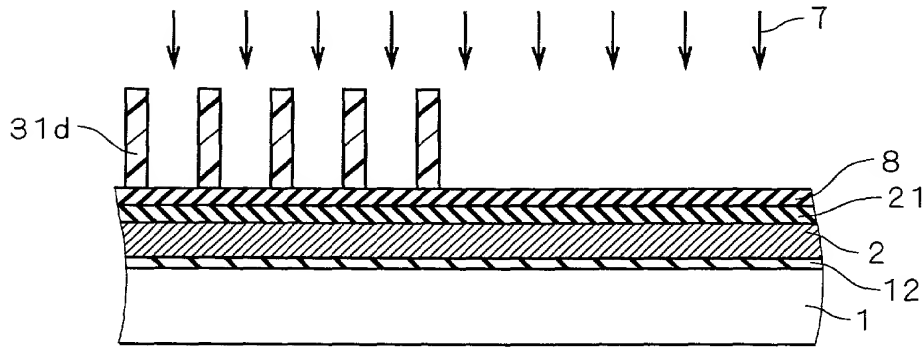
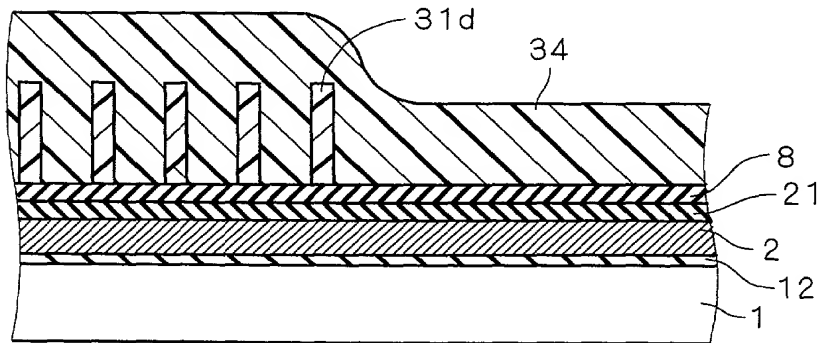
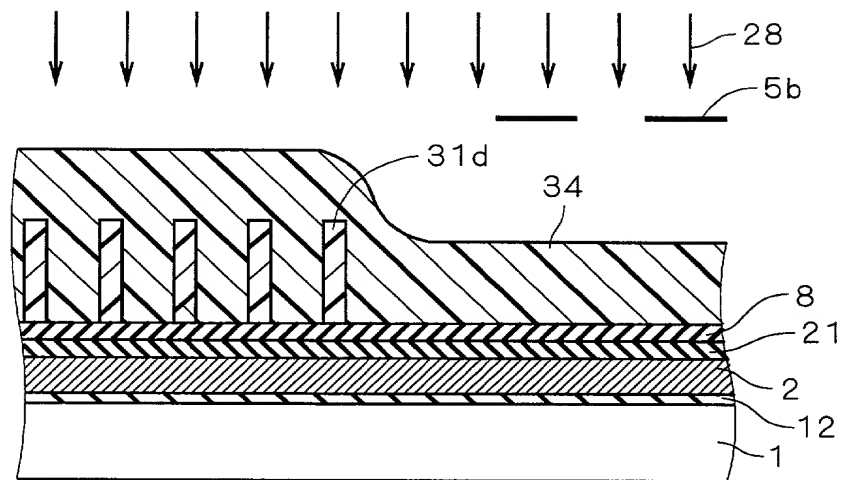


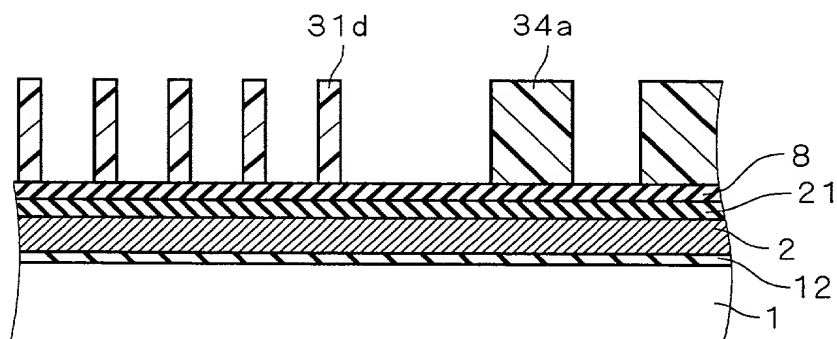
FIG. 89



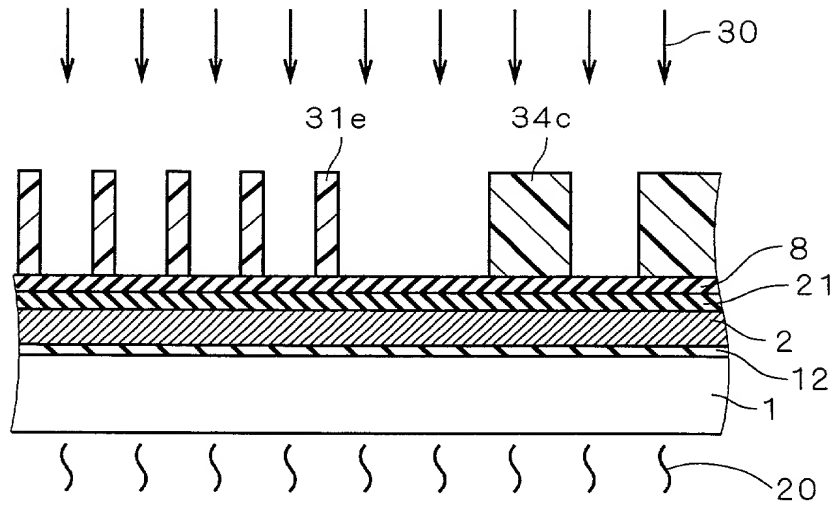
F I G . 90



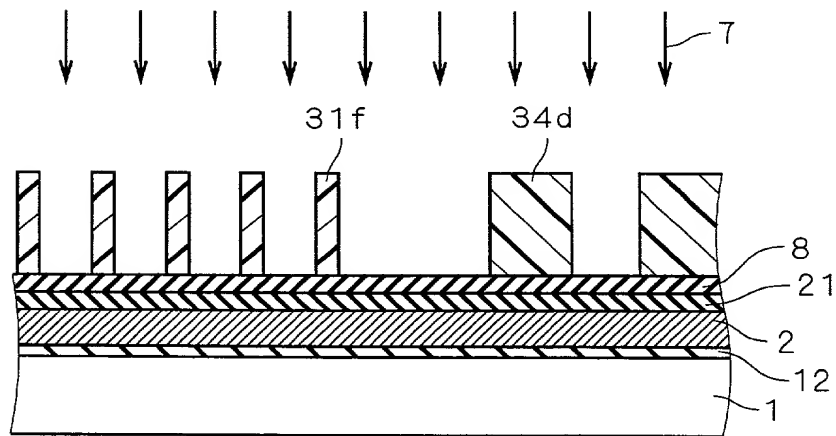
F I G . 91



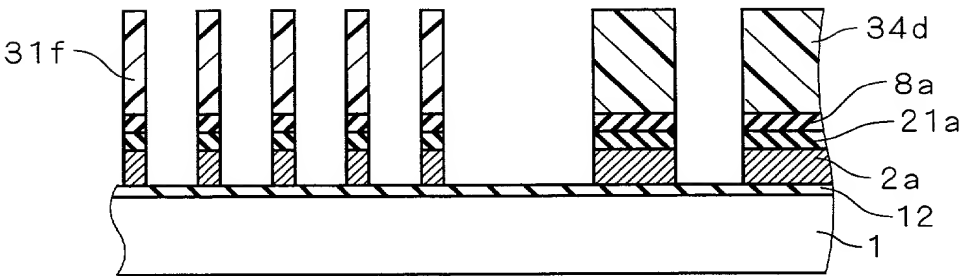
F I G . 92



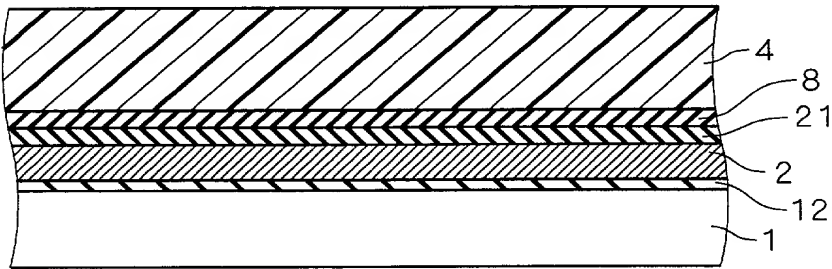
F I G . 93



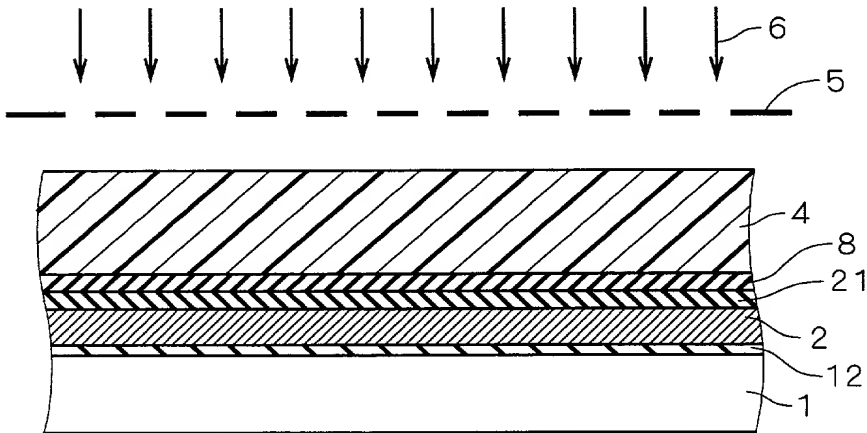
F I G . 94



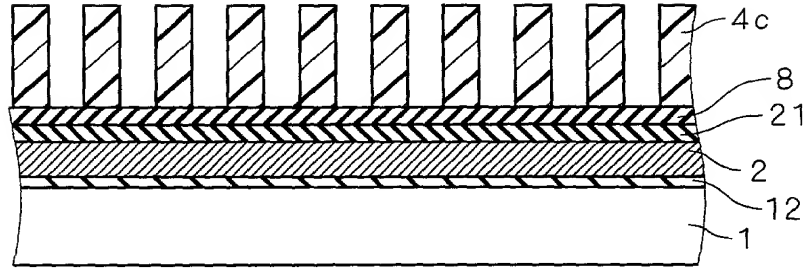
F I G . 95



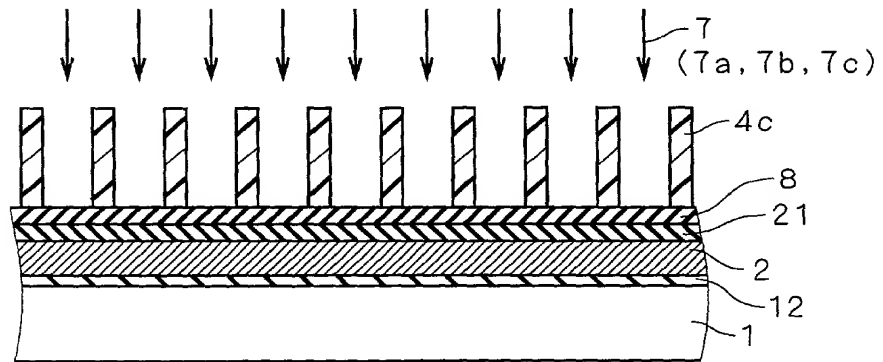
F I G . 96



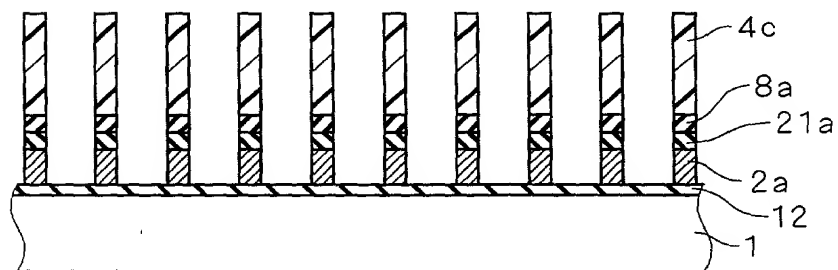
F I G . 97



F I G . 98



F I G . 99



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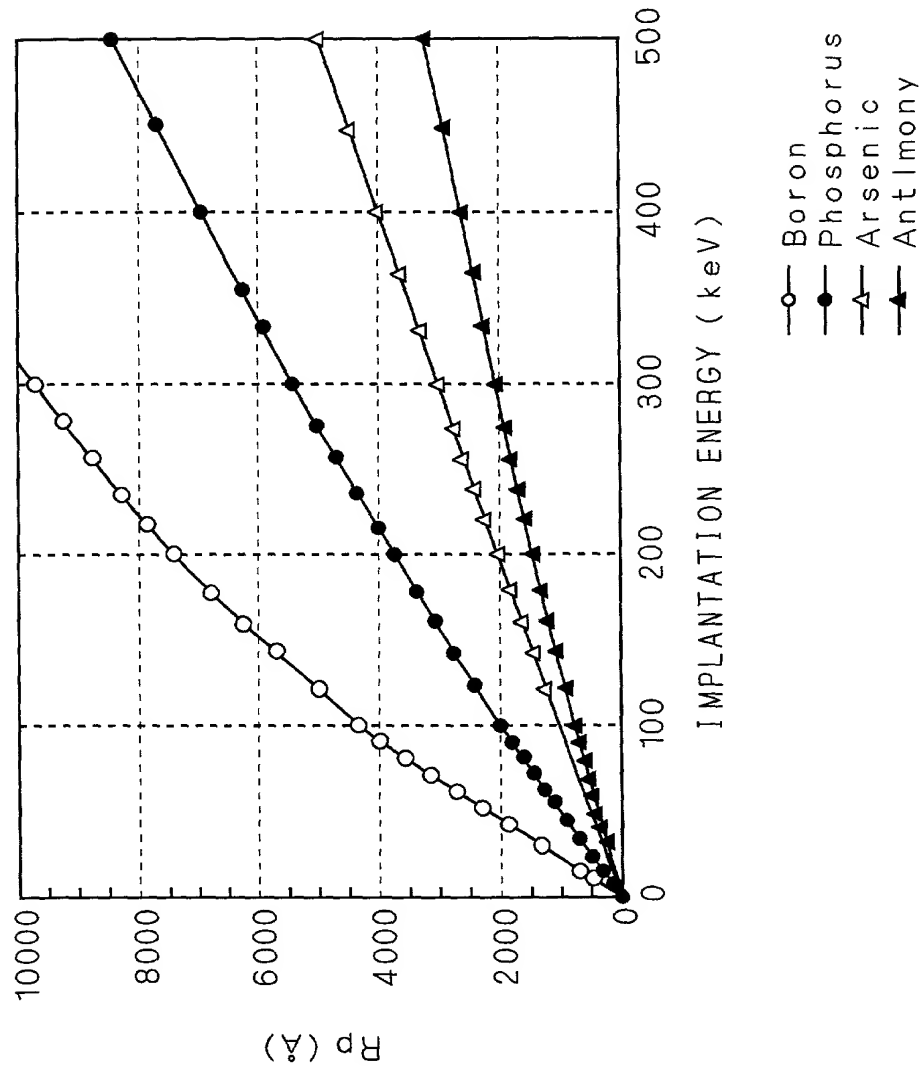


FIG. 100